CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.14/KRIDL/CSR-2/762c/CEMENT/2014-15 Date: 14.02.2015

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer**, T. Dasarahalli Sub Division, BBMP, Bangalore.
*AGENCY	:	**Technical Manager (West),** KRIDL, Bangalore.
*NAME OF THE WORK	:	Improvements to drains at 8th B Cross road Defense colony (Eshwara Temple Road) in Ward No.14, Bagalagunte, BBMP, Bangalore.
*REFERENCE	:	BBMP/DZ/AEE/TDSD/PR/2014-15 Dated: 11.02.2015
SAMPLE ID	:	Cement - (Sample 2)
SAMPLE RECEIVED ON	:	11.02.2015
PERIOD OF TESTING	:	11.02.2015 to 14.02.2015

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	28.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	470 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Note:

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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Job No.: CTCE/BBMP/W.No.14/KRIDL/CSR-2/762c/SAND-Gradation/2014-15 : 14.02.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

*** Agency** : **Technical Manager (West),** KRIDL, Bangalore.

*** Name of Work** : Improvements to drains at 8th B Cross road Defense colony (Eshwara Temple Road) in Ward No.14, Bagalagunte, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/2014-15 Dated: 11.02.2015

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates - (Sample 2)

Sample Received on : 11.02.2015

Date of Testing : 14.02.2015

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	93.80	90-100	90-100	90-100	95-100
2.36	73.30	60-95	75-100	85-100	95-100
1.18	50.80	30-70	55-90	75-100	90-100
600 Micron	29.60	15-34	35-59	60-79	80-100
300 Micron	11.00	5-20	8-30	12-40	15-50
150 Micron	4.00	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.14/KRIDL/CSR-2/762c/AGG/GR/2014-15 : 14.02.2015

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

*** Agency** : **Technical Manager (West),** KRIDL, Bangalore.

*** Name of Work** : Improvements to drains at 8th B Cross road Defense colony (Eshwara Temple Road) in Ward No.14, Bagalagunte, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/2014-15 Dated: 11.02.2015

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm) - (Sample 2)

Sample Received on : 11.02.2015

Date of Testing : 14.02.2015

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.98	95-100	85-100
20	41.74	30-70	0-20
10	16.58	10-35	0-5
4.75	4.04	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/W.No.14/KRIDL/CSR-2/762c/CC Solid Block/2014-15 : 17.02.2015

TEST REPORT ON SOLID CONCRETE BLOCKS

* Customer	: **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: **Technical Manager (West),** KRIDL, Bangalore.
* Name of the Work	: Improvements to drains at 8th B Cross road Defense colony (Eshwara Temple Road) in Ward No.14, Bagalagunte, BBMP, Bangalore.
Reference	: BBMP/DZ/AEE/TDSD/PR/2014-15 Dated: 11.02.2015
Sample Received on	: 13.02.2015
Date of Testing	: 17.02.2015
Size of Blocks	: 400mm x 200mm x 200mm
Cross Sectional Area	: 80000 mm^2
Technical Reference	: IS: 2185 (Part 1) - 2005
No. of Blocks Tested	: 08

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	24.56	261.1	3.26	Minimum required Compressive Strength of Individual Units 3.20 N/mm^2
2	Block 2	25.23	262.2	3.28	
3	Block 3	26.01	263.4	3.29	
4	Block 4	26.35	260.5	3.26	
5	Block 5	25.48	258.9	3.24	
6	Block 6	24.58	258.5	3.23	
7	Block 7	25.31	259.3	3.24	
8	Block 8	26.01	260.4	3.26	

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Job No.: CTCE/BBMP/W.No.14/KRIDL/CSR-2/762c/CUBE/2014-15 27.03.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer**	: **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
*** Agency**	: **Technical Manager (West),** KRIDL, Bangalore.
*** Name of the work**	: Improvements to drains at 8th B Cross road Defense colony (Eshwara Temple Road) in Ward No.14, Bagalagunte, BBMP, Bangalore.
*** Reference**	: BBMP/DZ/AEE/TDSD/PR/2014-15 Dated: 11.02.2015
*** Sample ID**	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
*** Grade of Concrete**	: M_{15}
Compressive Strength as on	: 28th day
Sample Received on	: 27.02.2015

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.02.2015	27.03.2015	8.285	365.5	16.24
2	27.02.2015	27.03.2015	8.452	388.8	17.28
3	27.02.2015	27.03.2015	8.374	372.6	16.56

* Information is furnished by the Customer/Representative

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Verified

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